

## EDUCATION

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### University of the Philippines – Los Baños

Los Baños, Laguna

### Bachelor of Science in Computer Science

August 2024

Overall General Weighted Average: 1.94 - Honor Roll

Relevant Coursework: Data Structures and Algorithms, Web Programming, Introduction to Software Engineering

Special Problem Project: Clustera - A Tool for Document and Textual Analysis using Latent Semantic Analysis and Latent Dirichlet Allocation

## WORK EXPERIENCE

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### LOPhils Incorporated

Quezon City, Manila

### Back-end Developer Intern

July – August 2023

- Worked in a software development team that developed a website for handling and storing real estate information and legal matters that uses cloud computing services from Amazon Web Services (AWS).
- Updated and modified API calls as well as identified and fixed various behavioral and user interface bugs, enhancing user experience and improving system functionality.
- Documented backend functionality and environment setup and common errors encountered improving onboarding experience.
- Utilized the Frameworks React, Tailwind, GraphQL, Node.js, and various Amazon Web Services (AWS)

### University of the Philippines – Los Baños

Los Baños, Laguna

### Back-end Developer

February – June 2023

- Worked in a software development team that developed a student accommodation and lodging web application
- Created and integrated the API calls for create, edit, update, and delete accommodations.
- Utilized the Frameworks Flutter, Django, and MongoDB.

## PROJECTS

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### TrackIt | Next.js, D3.js, Tailwind, Spring Boot

July – Present 2024

- Developed a Web Application to track and display a users' financial expenses and overall income.
- Implemented authentication using JSON Web Tokens (JWT) to enhance security, developed full CRUD (Create, Read, Update, Delete) operations, and integrated charts using D3.js to provide informative insights and overviews.
- Deployed the web applications frontend on Vercel and the backend on Render.

### Clustera | React.js, D3.js, Tailwind, Django, Scikit-Learn, Gensim, Amazon EC2

February – May 2024

- Developed a web application designed to serve as a tool for document and textual analysis.
- Utilized topic modeling techniques such as Latent Dirichlet Allocation and Latent Semantic Analysis for topic classification, clustering, and generation of topics.
- Integrated Clustering models that use Topic modeling techniques and classification models that use naïve bayes.
- Deployed the web applications frontend on Vercel and the backend on an Amazon EC2 instance.

### Lol Code interpreter | Python

October – November 2022

- Developed an interpreter for the LOL programming language using Python.
- Included a Graphical User Interface for user interaction using the Python library Tkinter.
- Implemented a Lexical Analyzer to process tokens and a Syntax Analyzer to check code structure and grammar.

### Social Media Application | React.js, CSS, Node.js, MongoDB

May 2021

- Developed a Social Media Web Application implementing full CRUD (Create, Read, Update, Delete) operations.
- Built the frontend using React.js and used Node.js and Express for the backend.

## SKILLS AND INTERESTS

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**Programming languages:** Python, JavaScript, TypeScript, Java, Rust, SQL

**Frameworks:** React, Django, D3.js, Next.js, Express, Tailwind, Spring Boot, GraphQL

**Libraries:** OpenCV, Selenium, Scikit-Learn, Gensim, Node.js

**Others:** Git, Amazon Web Services, Topic Modelling, Api Development, Full-Stack Development, Flutter, MongoDB, CSS

**Interests:** Data Analyst, Text Classification, Data Visualization, Clustering, Web Development, Software Development, Sentiment Analysis, Finance, Financial Markets.